



Observation Hydrant Pressures

Obscrvation Hydrant Fressure		
Static (before)	72	PSI
During	58	PSI
Static (after)	72	PSI

FIRE FLOW TEST REPORT

Test Date: Location:

523 Park St

12/13/2022

		-					
Static (before)	72	PSI					
During	58	PSI					
Static (after)	72	PSI		Number	of hy	drants flowed in test:	
		•				2	
			Pressure			Hydrant	
Flow Hydrant(s)	Outlet	Coef.	(PSI)	Flow		Notes	
Hydrant 1	2.5	0.9	55	1245	GPM		
Hydrant 2	2.5	0.9	45		GPM		
•				0			
				0			
			Total	2371	GPM		
Desired Residual	Pressure	!					
	PSI						
Flow available at	desired	residua	l Pressure				
4816		00.0.0.0					
4010	GI IVI						
				_		6 5	
	Prepared by: Scott B with Josh, Jose, and Jake						
					Date:	12/8/2022	

Qr flow available at desired residual pressure 3386 Qf flow during test

and the mow during test

60 hr pressure drop to desired residual pressure

33 hf pressure drop during test

Formula to calculate discharge at specified residual pressure. (hr and hf are raised to the power o 0.54)

Qr=Qf X hr0.54/hf0.54

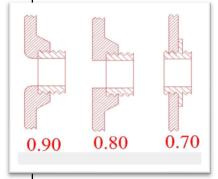
Qr= 4676.179

2-1/2" Fitting

Coefficient	Formula
0.9	Q=167.79p ^{1/2}
0.8	Q=149.15p ^{1/2}
0.7	Q=130.51p ^{1/2}

Pressure (p) 10

Coefficient	2.5" Flow GPM
0.9	530.5985686
0.8	471.653713
0.7	412.7088574



4" Fitting

Coefficient	Formula
0.9	Q=429.55p ^{1/2}
0.8	Q=381.82p ^{1/2}
0.7	Q=334.10p ^{1/2}

Pressure (p) 10

Coefficient	4" Flow GPM
0.9	1358.356369
0.8	1207.420856
0.7	1056.516966